

Slimline PCB Relay PCN

- 1 pole 3 A, 1 form A (NO) contact
- Only 5mm wide
- 3A switching current, load range 1mA up to 5A
- Sensitive coil 120mW
- Allows high function-/packing density
- Cadmium-free contacts
- Z type with reinforced insulation
- RoHS compliant (Directive 2002/95/EC)

Typical applications

PLC, temperature control, I/O modules.

Approvals

VDE REG.-Nr.40001589, UL E82292, CQC 08001026045 Technical data of approved types on request.

Contact Data

1 from A (NO)	
250VAC/30VDC	
277VAC/125VDC	
3A/5A	
3A/5A	
750VA (3A), 1250VA(5A)	
AgNi, gold plated	
bifurcated contact	
ce) 5VDC,100mA	
30mΩ at 100mA, 6VDC	
10/300min ⁻¹	
100x10 ³ ops.	
30x10 ³ ops.	
Сус	cles
· · · · · ·	
100x	10 ³
100x	10 ³
30x	10 ³
70x	10 ³
100x	10 ³
6x	10 ³
6x	10 ³
30x	10 ³
>10x10 ⁶ operations	
	250VAC/30VDC 277VAC/125VDC 3A/5A 3A/5A 750VA (3A), 1250VA(5A) AgNi, gold plated bifurcated contact ce) 5VDC,100mA 30mΩ at 100mA, 6VDC 1 10/300min ⁻¹ 100x10 ³ ops. 30x10 ³ ops. Cyc 100x 100x 100x 100x 30x 00x 30x 30x 100x 30x



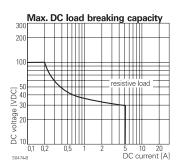
Coil Data

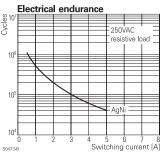
Coil voltage range	3 to 24VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class A
	Class F type available upon request

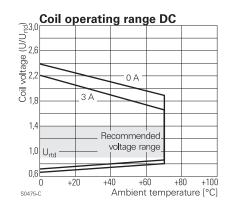
Standard D coil version (120mW), DC coil

Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDČ	VDC	VDČ	Ω±10%	mW			
03	3	2.1	0.3	75	120			
04	4.5	3.15	0.45	169	120			
05	5	3.5	0.5	208	120			
06	6	4.2	0.6	300	120			
09	9	6.3	0.9	675	120			
12	12	8.4	1.2	1200	120			
18	18	12.6	1.8	2700	120			
23	23.5	16.45	2.35	4602	120			
24	24	16.8	2.4	4800	120			
Standar	d L coil versi	on (100mW),	DC coil					
Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	Ω±10%	mW			
03	3	2.1	0.3	90	100			
04	4.5	3.15	0.45	202	100			
05	5	3.5	0.5	0.5 250				
06	6	4.2	0.6	0.6 360				
09	9	6.3	0.9	0.9 810				
12	12	8.4	1.2	1440	100			
18	18	12.6	1.8	3240	100			
23	23.5	16.45	2.35	5522	100			
24	24	16.8	2.4	5760	100			

All figures are given for coil without pre-energization, at ambient temperature +23°C.







12-2017, Rev. 1217 www.te.com © 2013 Tyco Electronics Corporation, a TE Connectivity Ltd. company. Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1



Slimline PCB Relay PCN (Continued)

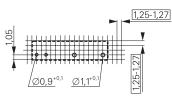
Insulation Data		
Initial dielectric strength		
between open contacts	750V _{ms}	
between contact and coil	3000V	
Initial surge withstand voltage		
between contact and coil	4000V	
Clearance/creepage		
between contact and coil	>3.5mm	
Tracking index of relay base	PTI600	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conte					
duct Compliance Support Center a					
ustomersupport/rohssupportcente					
-40 to 85°C					
RTIII - wash tight					
10 to 55Hz, 1.5mm					
10 to 55Hz, 1.5mm					
min. 98m/s², 11ms					
min. 980m/s², 6ms					
PCB-THT					
260°C/5s					
box/2000 pcs.					

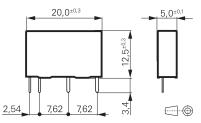


Bottom view on solder pins





Dimensions



Product code structure	Typical product code	PCN	1	05	D	3	м	н	Z	,001
Туре										
PCN Small Slim Power PCB Relay F	PCN									
Number of poles			_							
1 1pole										
Coil										
Coil code: please refer to coil versions	table (e.g. 05=5VDC)]					
Coil version										
D standard 120mW L	high sensitivity 100mW									
Contact material										
3 AgNi										
Contact arrangement										
M 1 form A, 1 NO contact										
Enclosure										
H RTIII - wash tight										
Insulation										
Z Reinforced insulation (tracking resi	stance of relay base, case PTI	600)								
Version										
00000 3A model										
00100 5A model										

Product code	Contact	Coil voltage	Coil	Cont. material	Enclosure	Rating	Part number
PCN-105D3MHZ,000	1-pole	5VDC	120mW	AgNi	RTIII - wash tight	ЗA	3-1461491-0
PCN-106D3MHZ,000		6VDC					3-1461491-1
PCN-112D3MHZ,000		12VDC					3-1461491-3
PCN-124D3MHZ,000		24VDC					3-1461491-6
PCN-124D3MHZ,001						5A	3-1461491-8 All

Note: This list represents the most common types and does not show all variants covered by this datasheet, other types on request.

12-2017, Rev. 1217 www.te.com © 2013 Tyco Electronics Corporation, a TE Connectivity Ltd. company.

2

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: <u>PCN-105D3MHZ</u> <u>PCN-105D3MHZ,000</u>